# Stefan Jockenhoevel

## List of Publications by Year in Descending Order



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| 133 papers | 3,487 citations | 32 h-index | 55 g-index |
| 146 ext. papers | 4,008 ext. citations | 4.5 avg, IF | 5.06 L-index |

| # | Paper | IF | Citations |
|---|---|---|---|
| 133 | Biodegradation and Immunological Parameters of Polyurethane-based Tissue Adhesive in Arterial Microvascular Anastomoses - a Long-term in Vivo Study.. *Macromolecular Bioscience*, **2022**, e2100451 | 5.5 | 0 |
| 132 | Bioactive tri-component nanofibers from cellulose acetate/lignin//N-vanillidene-phenylthiazole copper-(II) complex for potential diaper dermatitis control.. *International Journal of Biological Macromolecules*, **2022**, | 7.9 | 3 |
| 131 | Novel Elastic Threads for Intestinal Anastomoses: Feasibility and Mechanical Evaluation in a Porcine and Rabbit Model. *International Journal of Molecular Sciences*, **2022**, 23, 5389 | 6.3 | |
| 130 | Silk Fibroin as Adjuvant in the Fabrication of Mechanically Stable Fibrin Biocomposites. *Polymers*, **2022**, 14, 2251 | 4.5 | |
| 129 | Establishment of a Pre-vascularized 3D Lung Cancer Model in Fibrin Gel-Influence of Hypoxia and Cancer-Specific Therapeutics. *Frontiers in Bioengineering and Biotechnology*, **2021**, 9, 761846 | 5.8 | 0 |
| 128 | Advances in Engineering Venous Valves: The Pursuit of a Definite Solution for Chronic Venous Disease. *Tissue Engineering - Part B: Reviews*, **2021**, 27, 253-265 | 7.9 | 2 |
| 127 | Endoscopic atomization of mesenchymal stromal cells: in vitro study for local cell therapy of the lungs. *Cytotherapy*, **2021**, 23, 293-300 | 4.8 | 1 |
| 126 | Patient-Specific 3-Dimensional Model of Smooth Muscle Cell and Extracellular Matrix Dysfunction for the Study of Aortic Aneurysms. *Journal of Endovascular Therapy*, **2021**, 28, 604-613 | 2.5 | 2 |
| 125 | Bioengineered percutaneous heart valves for transcatheter aortic valve replacement: a comparative evaluation of decellularised bovine and porcine pericardia. *Materials Science and Engineering C*, **2021**, 123, 111936 | 8.3 | 1 |
| 124 | Drug-Eluting Medical Textiles: From Fiber Production and Textile Fabrication to Drug Loading and Delivery. *Macromolecular Bioscience*, **2021**, 21, e2100021 | 5.5 | 5 |
| 123 | Degradation resistance of PVDF mesh in vivo in comparison to PP mesh. *Journal of the Mechanical Behavior of Biomedical Materials*, **2021**, 119, 104490 | 4.1 | 2 |
| 122 | Cross-section modified and highly elastic sutures reduce tissue incision and show comparable biocompatibility: in-vitro and in-vivo evaluation of novel thermoplastic urethane surgical threads. *Journal of Biomedical Materials Research - Part B Applied Biomaterials*, **2021**, 109, 693-702 | 3.5 | 1 |
| 121 | FRESH bioprinting technology for tissue engineering - the influence of printing process and bioink composition on cell behavior and vascularization. *Journal of Applied Biomaterials and Functional Materials*, **2021**, 19, 22808000211028808 | 1.8 | 0 |
| 120 | Effect of Cellulose Characteristics on the Properties of the Wet-Spun Aerogel Fibers. *Applied Sciences (Switzerland)*, **2021**, 11, 1525 | 2.6 | 3 |
| 119 | Cellulose aerogel micro fibers for drug delivery applications. *Materials Science and Engineering C*, **2021**, 127, 112196 | 8.3 | 11 |
| 118 | Microvascular anastomosis techniques using the medical adhesive VIVO and expandable micro-stents in a rat carotid artery model. *Annals of Anatomy*, **2021**, 238, 151782 | 2.9 | 3 |
| 117 | Extracellular Vesicles-Loaded Fibrin Gel Supports Rapid Neovascularization for Dental Pulp Regeneration. *International Journal of Molecular Sciences*, **2020**, 21, | 6.3 | 13 |

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| 116 | Formation of cyclic structures in the cationic ring-opening polymerization of 1,3-dioxolane.. *RSC Advances*, **2020**, 10, 9623-9632 | 3.7 | 3 |
| 115 | Choosing the Right Differentiation Medium to Develop Mucociliary Phenotype of Primary Nasal Epithelial Cells In Vitro. *Scientific Reports*, **2020**, 10, 6963 | 4.9 | 8 |
| 114 | EndOxy: Dynamic Long-Term Evaluation of Endothelialized Gas Exchange Membranes for a Biohybrid Lung. *Annals of Biomedical Engineering*, **2020**, 48, 747-756 | 4.7 | 8 |
| 113 | Influence of Different Cell Types and Sources on Pre-Vascularisation in Fibrin and Agarose-Collagen Gels. *Organogenesis*, **2020**, 16, 14-26 | 1.7 | 10 |
| 112 | Development of in vitro endothelialized drug-eluting stent using human peripheral blood-derived endothelial progenitor cells. *Journal of Tissue Engineering and Regenerative Medicine*, **2020**, 14, 1415-1427 | 4.4 | 2 |
| 111 | Fabrication of blood-derived elastogenic vascular grafts using electrospun fibrinogen and polycaprolactone composite scaffolds for paediatric applications. *Journal of Tissue Engineering and Regenerative Medicine*, **2020**, 14, 1281-1295 | 4.4 | 4 |
| 110 | Warp-Knitted Spacer Fabrics: A Versatile Platform to Generate Fiber-Reinforced Hydrogels for 3D Tissue Engineering. *Materials*, **2020**, 13, | 3.5 | 3 |
| 109 | A bench-top molding method for the production of cell-laden fibrin micro-fibers with longitudinal topography. *Journal of Biomedical Materials Research - Part B Applied Biomaterials*, **2020**, 108, 1198-1212 | 3.5 | 6 |
| 108 | EndOxy: Mid-term stability and shear stress resistance of endothelial cells on PDMS gas exchange membranes. *Artificial Organs*, **2020**, 44, E419-E433 | 2.6 | 5 |
| 107 | Comparison of computational modelling techniques for braided stent analysis. *Computer Methods in Biomechanics and Biomedical Engineering*, **2019**, 22, 1334-1344 | 2.1 | 7 |
| 106 | MR and PET-CT monitoring of tissue-engineered vascular grafts in the ovine carotid artery. *Biomaterials*, **2019**, 216, 119228 | 15.6 | 15 |
| 105 | Combination of vascularization and cilia formation for three-dimensional airway tissue engineering. *Journal of Biomedical Materials Research - Part A*, **2019**, 107, 2053-2062 | 5.4 | 9 |
| 104 | Comparison of Covered Laser-cut and Braided Respiratory Stents: From Bench to Pre-Clinical Testing. *Annals of Biomedical Engineering*, **2019**, 47, 1738-1747 | 4.7 | 1 |
| 103 | Harnessing topographical & biochemical cues to enhance elastogenesis by paediatric cells for cardiovascular tissue engineering applications. *Biochemical and Biophysical Research Communications*, **2019**, 512, 156-162 | 3.4 | 3 |
| 102 | Macrophages significantly enhance wound healing in a vascularized skin model. *Journal of Biomedical Materials Research - Part A*, **2019**, 107, 1340-1350 | 5.4 | 15 |
| 101 | Small Caliber Compliant Vascular Grafts Based on Elastin-Like Recombinamers for Tissue Engineering. *Frontiers in Bioengineering and Biotechnology*, **2019**, 7, 340 | 5.8 | 35 |
| 100 | Improved biocompatibility of profiled sutures through lower macrophages adhesion. *Journal of Biomedical Materials Research - Part B Applied Biomaterials*, **2019**, 107, 1772-1778 | 3.5 | 6 |
| 99 | An In Vitro Model of a Parallel-Plate Perfusion System to Study Bacterial Adherence to Graft Tissues. *Journal of Visualized Experiments*, **2019**, | 1.6 | 1 |

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| 98 | Bio-Based Covered Stents: The Potential of Biologically Derived Membranes. *Tissue Engineering - Part B: Reviews*, **2019**, 25, 135-151 | 7.9 | 8 |
| 97 | VascuTrainer: A Mobile and Disposable Bioreactor System for the Conditioning of Tissue-Engineered Vascular Grafts. *Annals of Biomedical Engineering*, **2018**, 46, 616-626 | 4.7 | 16 |
| 96 | Electro-spun Membranes as Scaffolds for Human Corneal Endothelial Cells. *Current Eye Research*, **2018**, 43, 1-11 | 2.9 | 38 |
| 95 | Electro-spun PLA-PEG-yarns for tissue engineering applications. *Biomedizinische Technik*, **2018**, 63, 231-243 | 1.3 | 10 |
| 94 | Macroporous click-elastin-like hydrogels for tissue engineering applications. *Materials Science and Engineering C*, **2018**, 88, 140-147 | 8.3 | 18 |
| 93 | Bacterial adherence to graft tissues in static and flow conditions. *Journal of Thoracic and Cardiovascular Surgery*, **2018**, 155, 325-332.e4 | 1.5 | 23 |
| 92 | Fabrication and characterization of gefitinib-releasing polyurethane foam as a coating for drug-eluting stent in the treatment of bronchotracheal cancer. *International Journal of Pharmaceutics*, **2018**, 548, 803-811 | 6.5 | 9 |
| 91 | Artificial Textile Reinforced Tubular Aortic Heart Valves: Multi-scale Modelling and Experimental Validation. *Lecture Notes in Applied and Computational Mechanics*, **2018**, 185-215 | 0.3 | 3 |
| 90 | Fluid-structure interaction simulation of artificial textile reinforced aortic heart valve: Validation with an in-vitro test. *Journal of Biomechanics*, **2018**, 78, 52-69 | 2.9 | 10 |
| 89 | Intramyocardial angiogenetic stem cells and epicardial erythropoietin save the acute ischemic heart. *DMM Disease Models and Mechanisms*, **2018**, 11, | 4.1 | 7 |
| 88 | Evaluating the interaction of a tracheobronchial stent in an ovine in-vivo model. *Biomechanics and Modeling in Mechanobiology*, **2018**, 17, 499-516 | 3.8 | 5 |
| 87 | Combining Catalyst-Free Click Chemistry with Coaxial Electrospinning to Obtain Long-Term, Water-Stable, Bioactive Elastin-Like Fibers for Tissue Engineering Applications. *Macromolecular Bioscience*, **2018**, 18, e1800147 | 5.5 | 4 |
| 86 | Elastic materials for tissue engineering applications: Natural, synthetic, and hybrid polymers. *Acta Biomaterialia*, **2018**, 79, 60-82 | 10.8 | 70 |
| 85 | Development of a Polymer-Based Biodegradable Neurovascular Stent Prototype: A Preliminary In Vitro and In Vivo Study. *Macromolecular Bioscience*, **2018**, 18, e1700292 | 5.5 | 12 |
| 84 | Biocompatibility and biomechanical analysis of elastic TPU threads as new suture material. *Journal of Biomedical Materials Research - Part B Applied Biomaterials*, **2017**, 105, 99-106 | 3.5 | 21 |
| 83 | Multi-scale modelling of textile reinforced artificial tubular aortic heart valves. *Meccanica*, **2017**, 52, 677-693 | 2.1 | 12 |
| 82 | Gefitinib/gefitinib microspheres loaded polyurethane constructs as drug-eluting stent coating. *European Journal of Pharmaceutical Sciences*, **2017**, 103, 94-103 | 5.1 | 8 |
| 81 | An ovine in vivo framework for tracheobronchial stent analysis. *Biomechanics and Modeling in Mechanobiology*, **2017**, 16, 1535-1553 | 3.8 | 3 |

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| 80 | Umbilical cord as human cell source for mitral valve tissue engineering - venous vs. arterial cells. *Biomedizinische Technik*, **2017**, 62, 457-466 | 1.3 | 1 |
| 79 | Towards a Biohybrid Lung Assist Device: -Acetylcysteine Reduces Oxygen Toxicity and Changes Endothelial CellsRMorphology. *Cellular and Molecular Bioengineering*, **2017**, 10, 153-161 | 3.9 | 2 |
| 78 | Fluorinated polyurethane scaffolds for F magnetic resonance imaging. *Chemistry of Materials*, **2017**, 29, 2669-2671 | 9.6 | 11 |
| 77 | Three-Dimensional Printing and Angiogenesis: Tailored Agarose-Type I Collagen Blends Comprise Three-Dimensional Printability and Angiogenesis Potential for Tissue-Engineered Substitutes. *Tissue Engineering - Part C: Methods*, **2017**, 23, 604-615 | 2.9 | 71 |
| 76 | Freeze-Drying as a Novel Biofabrication Method for Achieving a Controlled Microarchitecture within Large, Complex Natural Biomaterial Scaffolds. *Advanced Healthcare Materials*, **2017**, 6, 1700598 | 10.1 | 55 |
| 75 | GelMA-collagen blends enable drop-on-demand 3D printablility and promote angiogenesis. *Biofabrication*, **2017**, 9, 045002 | 10.5 | 96 |
| 74 | In Vitro Quantification of Luminal Denudation After Crimping and Balloon Dilatation of Endothelialized Covered Stents. *CardioVascular and Interventional Radiology*, **2017**, 40, 1229-1236 | 2.7 | 2 |
| 73 | PulmoStent: In Vitro to In Vivo Evaluation of a Tissue Engineered Endobronchial Stent. *Annals of Biomedical Engineering*, **2017**, 45, 873-883 | 4.7 | 11 |
| 72 | EXPERIMENTAL INVESTIGATION OF ENDOSCOPIC CELL SPRAY. *Atomization and Sprays*, **2017**, 27, 847-858 | 1.2 | 0 |
| 71 | Towards a Biohybrid Lung: Endothelial Cells Promote Oxygen Transfer through Gas Permeable Membranes. *BioMed Research International*, **2017**, 2017, 5258196 | 3 | 11 |
| 70 | Poster session 13: Organ and patient support systems I. *Biomedizinische Technik*, **2017**, 62, | 1.3 | 1 |
| 69 | Selection and fabrication of a non-woven polycarbonate urethane cover for a tissue engineered airway stent. *International Journal of Pharmaceutics*, **2016**, 514, 255-262 | 6.5 | 8 |
| 68 | Hybrid elastin-like recombinamer-fibrin gels: physical characterization and in vitro evaluation for cardiovascular tissue engineering applications. *Biomaterials Science*, **2016**, 4, 1361-70 | 7.4 | 14 |
| 67 | Tissue-Engineered Fibrin-Based Heart Valve with Bio-Inspired Textile Reinforcement. *Advanced Healthcare Materials*, **2016**, 5, 2113-21 | 10.1 | 39 |
| 66 | Ultrasound for In Vitro, Noninvasive Real-Time Monitoring and Evaluation of Tissue-Engineered Heart Valves. *Tissue Engineering - Part C: Methods*, **2016**, 22, 974-981 | 2.9 | 7 |
| 65 | Flexible Endoscopic Spray Application of Respiratory Epithelial Cells as Platform Technology to Apply Cells in Tubular Organs. *Tissue Engineering - Part C: Methods*, **2016**, 22, 322-31 | 2.9 | 12 |
| 64 | Targeting In-Stent-Stenosis with RGD- and CXCL1-Coated Mini-Stents in Mice. *PLoS ONE*, **2016**, 11, e0155829 | 3.7 | 13 |
| 63 | Characterisation of cell-substrate interactions between Schwann cells and three-dimensional fibrin hydrogels containing orientated nanofibre topographical cues. *European Journal of Neuroscience*, **2016**, 43, 376-87 | 3.5 | 20 |

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| 62 | Bioengineered vascular constructs as living models for in vitro cardiovascular research. *Drug Discovery Today*, **2016**, 21, 1446-1455 | 8.8 | 15 |
| 61 | The face towards nature. *Biomedizinische Technik*, **2016**, 61, 251-2 | 1.3 | |
| 60 | Effect of Intensified Decellularization of Equine Carotid Arteries on Scaffold Biomechanics and Cytotoxicity. *Annals of Biomedical Engineering*, **2015**, 43, 2630-41 | 4.7 | 19 |
| 59 | Optical Fibers **2015**, 79-108 | | 6 |
| 58 | Spraying Respiratory Epithelial Cells to Coat Tissue-Engineered Constructs. *BioResearch Open Access*, **2015**, 4, 278-87 | 2.4 | 15 |
| 57 | Incorporation of fibrin into a collagen-glycosaminoglycan matrix results in a scaffold with improved mechanical properties and enhanced capacity to resist cell-mediated contraction. *Acta Biomaterialia*, **2015**, 26, 205-14 | 10.8 | 38 |
| 56 | Elastin-like recombinamer-covered stents: Towards a fully biocompatible and non-thrombogenic device for cardiovascular diseases. *Acta Biomaterialia*, **2015**, 12, 146-155 | 10.8 | 51 |
| 55 | Tissue-engineered heart valve with a tubular leaflet design for minimally invasive transcatheter implantation. *Tissue Engineering - Part C: Methods*, **2015**, 21, 530-40 | 2.9 | 38 |
| 54 | Spray- and laser-assisted biomaterial processing for fast and efficient autologous cell-plus-matrix tissue engineering. *Journal of Tissue Engineering and Regenerative Medicine*, **2015**, 9, E177-90 | 4.4 | 11 |
| 53 | The effects of constant flow bioreactor cultivation and keratinocyte seeding densities on prevascularized organotypic skin grafts based on a fibrin scaffold. *Tissue Engineering - Part A*, **2015**, 21, 343-52 | 3.9 | 21 |
| 52 | Differentiation of respiratory epithelium in a 3-dimensional co-culture with fibroblasts embedded in fibrin gel. *Multidisciplinary Respiratory Medicine*, **2015**, 11, 6 | 3 | 5 |
| 51 | Effect of reinforcement volume fraction and orientation on a hybrid tissue engineered aortic heart valve with a tubular leaflet design. *Advanced Modeling and Simulation in Engineering Sciences*, **2015**, 2, | 2.7 | 7 |
| 50 | Co-Culture of Human Endothelial Cells and Foreskin Fibroblasts on 3D Silk-Fibrin Scaffolds Supports Vascularization. *Macromolecular Bioscience*, **2015**, 15, 1433-46 | 5.5 | 18 |
| 49 | ENDOXY - Development of a Biomimetic Oxygenator-Test-Device. *PLoS ONE*, **2015**, 10, e0142961 | 3.7 | 9 |
| 48 | USPIO-labeled textile materials for non-invasive MR imaging of tissue-engineered vascular grafts. *Biomaterials*, **2015**, 39, 155-63 | 15.6 | 56 |
| 47 | Endoxy □development and cultivation of textile-based gas membrane assemblies for endothelialized oxygenators. *BioNanoMaterials*, **2015**, 16, | | 1 |
| 46 | Multiple-Step Injection Molding for Fibrin-Based Tissue-Engineered Heart Valves. *Tissue Engineering - Part C: Methods*, **2015**, 21, 832-40 | 2.9 | 33 |
| 45 | Biofunctionalized microfiber-assisted formation of intrinsic three-dimensional capillary-like structures. *Tissue Engineering - Part A*, **2014**, 20, 1858-69 | 3.9 | 24 |

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| 44 | 3D non-woven polyvinylidene fluoride scaffolds: fibre cross section and texturizing patterns have impact on growth of mesenchymal stromal cells. *PLoS ONE*, **2014**, 9, e94353 | 3.7 | 15 |
| 43 | FMN-coated fluorescent USPIO for cell labeling and non-invasive MR imaging in tissue engineering. *Theranostics*, **2014**, 4, 1002-13 | 12.1 | 25 |
| 42 | TexMi: development of tissue-engineered textile-reinforced mitral valve prosthesis. *Tissue Engineering - Part C: Methods*, **2014**, 20, 741-8 | 2.9 | 16 |
| 41 | Elastic filaments from thermoplastic polyurethanes for application in highly elastic mesh implants. *BioNanoMaterials*, **2014**, 15, | | 1 |
| 40 | Nondestructive monitoring of tissue-engineered constructs. *Biomedizinische Technik*, **2014**, 59, 165-75 | 1.3 | 6 |
| 39 | Bioartificial fabrication of regenerating blood vessel substitutes: requirements and current strategies. *Biomedizinische Technik*, **2014**, 59, 185-95 | 1.3 | 10 |
| 38 | Tissue-engineered fibrin-based heart valve with a tubular leaflet design. *Tissue Engineering - Part C: Methods*, **2014**, 20, 265-75 | 2.9 | 45 |
| 37 | Ovine carotid artery-derived cells as an optimized supportive cell layer in 2-D capillary network assays. *PLoS ONE*, **2014**, 9, e91664 | 3.7 | |
| 36 | Fibronectin coating of oxygenator membranes enhances endothelial cell attachment. *BioMedical Engineering OnLine*, **2013**, 12, 7 | 4.1 | 27 |
| 35 | Influence of 4% icodextrin solution on peritoneal tissue response and adhesion formation. *BMC Surgery*, **2013**, 13, 34 | 2.3 | 22 |
| 34 | Pulsatile perfusion bioreactor system for durability testing and compliance estimation of tissue engineered vascular grafts. *Annals of Biomedical Engineering*, **2013**, 41, 1979-89 | 4.7 | 16 |
| 33 | Fibrin-based tissue engineering: comparison of different methods of autologous fibrinogen isolation. *Tissue Engineering - Part C: Methods*, **2013**, 19, 216-26 | 2.9 | 44 |
| 32 | Reversible contacting of smart textiles with adhesive bonded magnets **2013**, | | 6 |
| 31 | Coating of conductive yarns for electro-textile applications. *Journal of the Textile Institute*, **2013**, 104, 270-277 | 1.5 | 35 |
| 30 | Editorial BioNanomaterials Drive Innovation in Clinical Research. *BioNanoMaterials*, **2013**, 14, 1-2 | | 2 |
| 29 | Tissue engineering: selecting the optimal fixative for immunohistochemistry. *Tissue Engineering - Part C: Methods*, **2012**, 18, 976-83 | 2.9 | 5 |
| 28 | Fabrication of fibrin scaffolds with controlled microscale architecture by a two-photon polymerization-micromolding technique. *Biofabrication*, **2012**, 4, 015001 | 10.5 | 44 |
| 27 | Fibrin gel as alternative scaffold for respiratory tissue engineering. *Annals of Biomedical Engineering*, **2012**, 40, 679-87 | 4.7 | 19 |

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| 26 | The BioStent: novel concept for a viable stent structure. *Tissue Engineering - Part A*, **2012**, 18, 1818-26 | 3.9 | 20 |
| 25 | Fibrin- and collagen-based matrices attenuate inflammatory and procoagulant responses in human endothelial cell cultures exposed to Staphylococcus aureus. *Tissue Engineering - Part A*, **2012**, 18, 147-56 | 3.9 | 6 |
| 24 | Donor age of human platelet lysate affects proliferation and differentiation of mesenchymal stem cells. *PLoS ONE*, **2012**, 7, e37839 | 3.7 | 105 |
| 23 | Influence of platelet-derived growth factor-AB on tissue development in autologous platelet-rich plasma gels. *Tissue Engineering - Part A*, **2011**, 17, 1891-9 | 3.9 | 19 |
| 22 | Synthesis and characterization of biodegradable polyester/polyether resins via Michael-type addition. *Polymer Chemistry*, **2011**, 2, 2273 | 4.9 | 10 |
| 21 | Autologous valve replacement-CD133+ stem cell-plus-fibrin composite-based sprayed cell seeding for intraoperative heart valve tissue engineering. *Tissue Engineering - Part C: Methods*, **2011**, 17, 299-309 | 2.9 | 21 |
| 20 | Nondestructive method to evaluate the collagen content of fibrin-based tissue engineered structures via ultrasound. *Tissue Engineering - Part C: Methods*, **2011**, 17, 1021-6 | 2.9 | 40 |
| 19 | Fabrication of highly porous scaffolds for tissue engineering based on star-shaped functional poly(□caprolactone). *Biotechnology and Bioengineering*, **2011**, 108, 694-703 | 4.9 | 21 |
| 18 | Laser printing of three-dimensional multicellular arrays for studies of cell-cell and cell-environment interactions. *Tissue Engineering - Part C: Methods*, **2011**, 17, 973-82 | 2.9 | 172 |
| 17 | Neutrophil-derived cathelicidin protects from neointimal hyperplasia. *Science Translational Medicine*, **2011**, 3, 103ra98 | 17.5 | 81 |
| 16 | HYBRID BIOMATERIALS FOR ENGINEERING VASCULAR TISSUES **2010**, 373-387 | | 1 |
| 15 | Fibrin-polylactide-based tissue-engineered vascular graft in the arterial circulation. *Biomaterials*, **2010**, 31, 4731-9 | 15.6 | 110 |
| 14 | In vivo remodeling and structural characterization of fibrin-based tissue-engineered heart valves in the adult sheep model. *Tissue Engineering - Part A*, **2009**, 15, 2965-76 | 3.9 | 129 |
| 13 | Mechanical properties of tissue-engineered vascular grafts: response to letter to the editor. *Artificial Organs*, **2009**, 33, 194-6 | 2.6 | 3 |
| 12 | Tranexamic acid--an alternative to aprotinin in fibrin-based cardiovascular tissue engineering. *Tissue Engineering - Part A*, **2009**, 15, 3645-53 | 3.9 | 59 |
| 11 | Tissue-engineered small-caliber vascular graft based on a novel biodegradable composite fibrin-polylactide scaffold. *Tissue Engineering - Part A*, **2009**, 15, 1909-18 | 3.9 | 90 |
| 10 | The Use of Fibrin as an Autologous Scaffold Material for Cardiovascular Tissue Engineering Applications: From In Vitro to In Vivo Evaluation. *IFMBE Proceedings*, **2009**, 2186-2189 | 0.2 | |
| 9 | Design and Construction of a System for the Application of Variable Pressure to Tissue Engineered Blood Vessels. *IFMBE Proceedings*, **2009**, 2205-2208 | 0.2 | |

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| 8 | Development of a composite degradable/nondegradable tissue-engineered vascular graft. *Artificial Organs*, **2008**, 32, 800-9 | 2.6 | 39 |
| 7 | The in vitro development of autologous fibrin-based tissue-engineered heart valves through optimised dynamic conditioning. *Biomaterials*, **2007**, 28, 3388-97 | 15.6 | 129 |
| 6 | Hypertensive pulmonary vascular disease in adults with secundum or sinus venosus atrial septal defect. *Annals of Thoracic Surgery*, **2006**, 81, 207-13 | 2.7 | 55 |
| 5 | A collagen-glycosaminoglycan co-culture model for heart valve tissue engineering applications. *Biomaterials*, **2006**, 27, 2233-46 | 15.6 | 110 |
| 4 | Cardiovascular tissue engineering: a new laminar flow chamber for in vitro improvement of mechanical tissue properties. *ASAIO Journal*, **2002**, 48, 8-11 | 3.6 | 66 |
| 3 | Fibrin gel -- advantages of a new scaffold in cardiovascular tissue engineering. *European Journal of Cardio-thoracic Surgery*, **2001**, 19, 424-30 | 3 | 273 |
| 2 | Scaffold precoating with human autologous extracellular matrix for improved cell attachment in cardiovascular tissue engineering. *ASAIO Journal*, **2000**, 46, 730-3 | 3.6 | 42 |
| 1 | Fibrin gel as a three dimensional matrix in cardiovascular tissue engineering. *European Journal of Cardio-thoracic Surgery*, **2000**, 17, 587-91 | 3 | 337 |